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PROFESSIONAL FOCUS

G. Mathias Kondolf is a fluvial geomorphologist whose research concerns environmental river management, influences of land-use on rivers, notably effects of mining and dams on river systems, interactions of riparian vegetation and channel form, geomorphic influences on habitat for salmon and trout, alternative flood management strategies, and assessment of ecological restoration. Dr. Kondolf has published over one hundred technical journal articles, book chapters, and reports on these and related topics. For a complete publication list: www.ced.berkeley.edu/landscape/kondolf.

Dr. Kondolf is an Associate Professor of Environmental Planning and Geography at the University of California at Berkeley, where he teaches Hydrology for Planners, Restoration of Rivers and Streams, Ecological Analysis in Urban Design, and Introduction to Environmental Sciences. He received his Ph.D. in Geography and Environmental Engineering from the Johns Hopkins University, his MS in Earth Sciences from the University of California at Santa Cruz, and his AB in Geology (*cum laude*) from Princeton University. Dr. Kondolf has served as consultant to clients including the Federal Republic of Germany, the US Fish and Wildlife Service, the US Army Corps of Engineers, the US Bureau of Land Management, the California Attorney General, the California Department of Fish and Game and Department of Water Resources, various water districts and utilities, aggregate producers, and environmental organizations. He has provided expert testimony to committees of the US Congress and California State Senate, the California State Water Resources Control Board, and other official bodies and legal proceedings. Dr. Kondolf was an author of Strategic Plan for, and is currently a member of the Interim Science Board for the Calfed Ecosystem Restoration Program.

EDUCATION

- JOHNS HOPKINS UNIVERSITY - PhD Geography & Environmental Engineering 1988.
- UNIVERSITY OF CALIFORNIA AT SANTA CRUZ - MS, Earth Sciences 1982
- PRINCETON UNIVERSITY - AB *cum laude*, Geology 1978.

PROFESSIONAL EXPERIENCE

- UNIVERSITY OF CALIFORNIA AT BERKELEY

Associate Professor of Environmental Planning, 1994 to present

Associate Professor of Geography, 1996 to present

Assistant Professor of Environmental Planning, 1988-1994

Affiliated faculty of the Energy and Resources Group, 1994-present.

Courses: Environmental Geology for Planners, Hydrology for Planners, Restoration of Rivers and Streams, Ecological Analysis in Urban Design, Introduction to Environmental Sciences, and Water in California.

- WHITE MOUNTAIN RESEARCH STATION *Research Scientist*, 1989-1993 (33% appt)
- OAK RIDGE NATIONAL LABORATORY, Environmental Science Division *Graduate Research Participant*, 1985-1987. US GEOL SURVEY *Hydrologic Field Assistant*, 1985.

RECENT AWARDS

- Fulbright Senior Scholar Award to France 1997-1998, for research on Mediterranean climate rivers.
- Fullbright Senior Scholar Award to Portugal 2001, teaching and research at University of Lisbon

SELECTED PUBLICATIONS

- Kondolf, G.M. 1995. Five elements for effective evaluation of stream restoration. *Restoration Ecology*. 3(2):133-136.
- Kondolf, G.M. 1995. Geomorphological stream channel classification in aquatic habitat restoration: uses and limitations. *Aquatic Conservation*. 5:127-141.
- Kondolf, G.M. 1995. Managing bedload sediments in regulated rivers: examples from California, USA. *Geophysical Monograph*. 89:165-176.
- Kondolf, G.M., and P.R. Wilcock. 1996. The flushing flow problem: defining and evaluating objectives. *Water Resources Research*. 32(8):2589-2599.
- Wilcock, P.R., G.M. Kondolf, W.V. Matthews, and A.F. Barta. 1996. Specification of sediment maintenance flows for a large gravel-bed river. *Water Resources Research*. 32(9):2911-2921.
- Kondolf, G.M., R. Kattelman, M. Embury, and D.C. Erman. 1996. Status of riparian habitat. Chapter 36 in *Sierra Nevada Ecosystem Project: Final Report to Congress, Vol. II, Assessments and scientific basis for management options*. Report No. 88, Center for Water and Wildland Resources, University of California, Davis, p.36-1 - 36-22.
- Kondolf, G.M., J.C. Vick, and T.M. Ramirez. 1996. Salmon spawning habitat rehabilitation on the Merced River, California: an evaluation of project planning and performance. *Transactions of the American Fisheries Society*. 125:899-912.
- Kondolf, G.M. 1997. Hungry water: effects of dams and gravel mining on river channels. *Environmental Management*. 21(4):533-551.
- Kondolf, G.M. 1998. Lessons learned from river restoration projects in California. *Aquatic Conservation*. 8:39-52
- Kondolf, G.M. 1998. Environmental effects of aggregate extraction from river channels and floodplains. in *Aggregate Resources: A Global Perspective*, P. Bobrowsky ed), Balkema, Rotterdam. pp. 113-129.
- Healey, M., W. Kimmerer, G.M. Kondolf, R. Meade, P.B. Moyle, and R. Twiss. 1998. Strategic Plan for the Ecosystem Restoration Program. CALFED Bay-Delta Program, Sacramento, California.
- Kondolf, G.M., and A. Adhikari. 2000. Weibull vs. lognormal distributions for fluvial gravels. *Journal of Sedimentary Research* 70(3):456-460.
- Kondolf, G.M. 2000. Assessing salmonid spawning gravels. *Transactions of the American Fisheries Society* 129:262-281.
- Kondolf, G.M. 2000. Some suggested guidelines for geomorphic aspects of anadromous salmonid habitat restoration proposals. *Restoration Ecology* 8(1):48-56.
- Moyle, P.B. and G.M. Kondolf, 2000. Fish Bypass Flows for Coastal Watersheds. Review of Proposed Approaches for the California State Water Resources Control Board, June 2000.